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SLA 60-17377

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IC-40429-M

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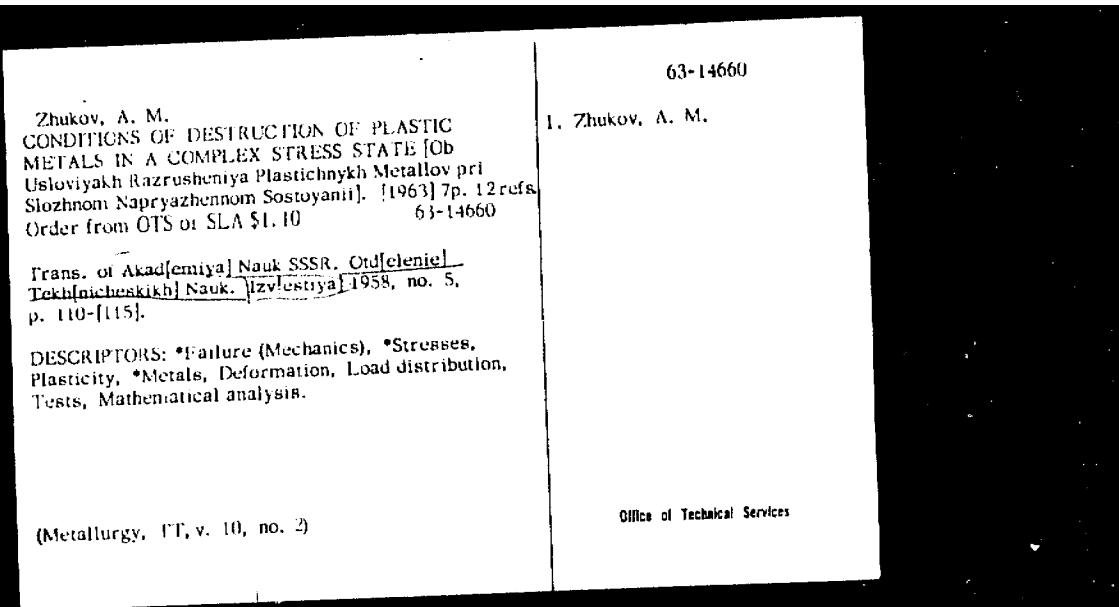
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(L3 15a.Cd.)

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The Study of the Method of Elastic Vibrations in the Kinetic Changes in the Properties of Melts on Heating, by

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ATB-39K28R

Sci - Engineering, Fuels

May 59

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Dzhanelidze, 8 pp.

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CSIR 173

Sci - Engr

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Under the Influence of Irradiation, by A. I.  
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AEC SCL-T-336

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<p>Kononenko, V. O. RESONANT OSCILLATIONS OF A ROTATING SHAFT WITH A DISC (Rezonansnye Kolebaniya Vrashchayushchegosya Vatsa s Diskom). June 61 [7]p. 3 refs. RTS 1866. Order from OTS or SLA \$1.10</p> <p>Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1958, no. 7, p. 87-90.</p> <p>DESCRIPTORS: *Shafts, Rotation, Oscillation, Disks, Turbine wheels.</p> <p>The oscillatory system being studied is the rotor of an engine (a turbine) the disk of which is subject to a moment <math>L(\phi)</math> depending on the speed of rotation of the engine. An analysis of the motion shows that certain vibrational phenomena occur in the resonant region, depending on the characteristics of the engine. The solutions obtained explain the familiar experimental facts and contain the theory of the Sommerfeld effect.</p>	<p>61-23638</p> <p>I. Kononenko, V. O. II. RTS-1866 III. Department of Scientific and Industrial Research (Gt. Brit.)</p> <p>180591</p> <p>Office of Technical Services (Machinery--Engines, TT, v. 6, no. 5)</p>
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On Turbulence in Flame, by A. G. Prudnikov.

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Henry Brutcher 4346  
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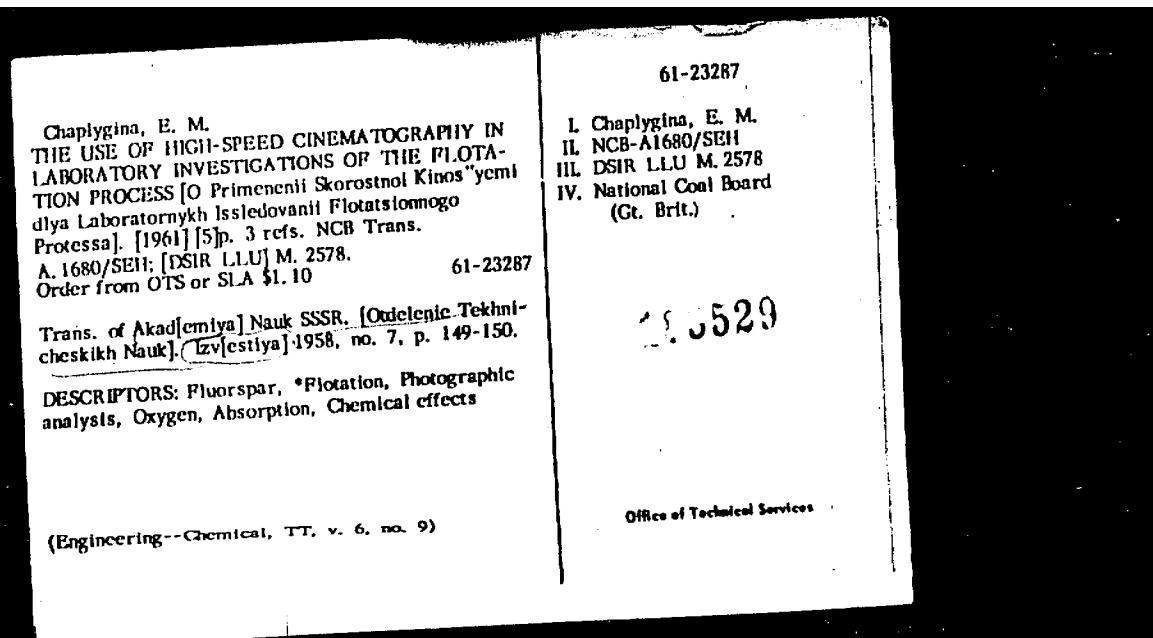
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On the Coefficient of Resistance to Motion of  
Burning Particles, by V. N. Basov, V. A. Popov.

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Coefficient of Resistance to Motion  
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ATG-24M44R

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<p>Zavalishin, D. A. NEW TECHNIQUES FOR A.C. FREQUENCY CONVERSION BY MEANS OF VALVE CONVERTERS AND GENERATORS HAVING A VALVE COMMUTATOR (Novye Sistemy Preobrazovaniya Chastoty Peremennogo Toka pri Pomoshchi Elektronno-ionnykh Preobrazovatelyei i Generatorov s Ionnym Kollektorom). July 61 [13 p.] 4 refs. RTS 1888. Order from OTS or SLA \$1.60</p> <p>Trans. of Akademiya Nauk SSSR, Otdelenie Tekhnicheskikh Nauk, Izvestiya, 1958, no. 8, p. 81-87.</p> <p>DESCRIPTORS: *Frequency converters, Alternating current, *Valves, *Generators, Voltage regulators, *Commutators, Electric machinery. (Engineering--Electrical, TT, v. 6, no. 10)</p>	<p>61-27297</p> <p>I. Zavalishin, D. A. II. RTS-1888 III. Department of Scientific and Industrial Research (Gt. Brit.)</p> <p>7350</p> <p>Office of Technical Services</p>
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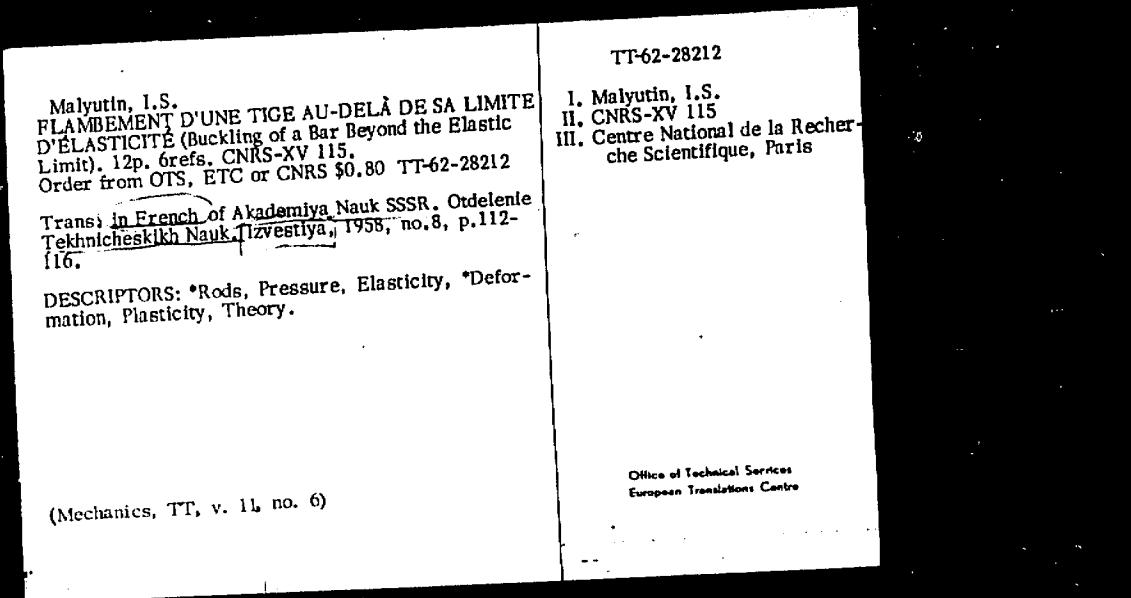
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Henry Bratcher 4402  
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Sci - Min/Met

Jan 59

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The Vortex Wake Accompanying Flow Past  
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Pavlikhina, L. P. Smirnov, 7 pp.

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AT&T-49842R

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RJ-3318

Grodzovskiy, G. L.  
SEVERAL EXACT SOLUTIONS TO THE PROBLEM  
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Solutions are obtained in general form that can be used  
for calculating gas flow in a pipe under arbitrary con-  
ditions, for example, for an arbitrary distribution of  
wall temperature along the pipe.

(Mechanics--Pneumatics, TT, v. 5, no. 12)

61-11190

1. Gas flow--Mathematical analysis
2. Pipes--Aerodynamic characteristics
3. Grodzovskiy, G. L.
4. APL/JHU TG-230-T199
5. Applied Physics Lab.,  
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SLA 60-~~A~~4337  
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Effect of Hydrogen on Structure and Properties  
of the Industrial Titanium Alloys VT 2, VT 3,  
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A. M. Yakimova.

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<p>El'yaaberg, M. Ye. STABILITY OF THE METAL CUTTING PROCESS (Ob Ustoichivost Protsessa Rezaniya Metallov) tr. by M. Slade. [1960] (34)p. (foreign text included) 7 refs. Trans. no. 4493. Order from LC or SLA m1\$3.00. ph\$6.30 60-23209 19.30 61-10675 Trans. of Akademiya Nauk SSSR. Otdeleniye Tekhnicheskikh Nauk. Izvestiya, 1958, no. 9, p. 37-52.</p> <p>A theory of self-induced oscillations in machining is developed which makes use of the mechanisms accom- panying the deformation of the metal being worked.</p> <p>(OTS TT-62-26398) RUSSIAN &amp; FRENCH</p> <p>(Machinery--Manufacturing, TT, v. 5, no. 3)</p>	<p>60-23209</p> <p>1. Metals--Machining 2. Cutting tools--Mechanical properties</p> <p>I. El'yaaberg, M. Ye. II. CSIRO Trans-4493 III. Commonwealth Scientific and Industrial Research Organization (Australia)</p> <p>142,991</p>
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Degassing of Aluminum Alloys by Ultrasonic Vibrations, by M. B. Al'tman, et al.

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Sci - Chem, M, i/Met

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Navy 2010/T-55

Sci - Physics  
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Criteria Equations of Convective Heat Exchange in  
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P. J. Ogibalov, 9 pp.

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JPRS-L-1188-N

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Diffusion of Fe\* in Alloys of a Compound  
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Sci - Phys

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Movement of Fluid-Sand Mixture in a Well and in a  
Fracture in Hydraulic Fracturing of an Oil-Bearing  
Formation, by V. S. Dorozhkin, Yu. V. Zheltov,  
Yu. P. Zheltov, 7 pp.

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A Single-Axle, Electric Gyro-Stabilizer with the  
Rotor-Cage Axis at an Oblique Angle, by N. T.  
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Navy 2057/T-86

Sci - Engr  
Mar 59

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Heat Balance of Direct Current Welding Arc in Gases  
During the Period of Drop Formation," by I. D.  
Kulagin, A. V. Nikolayev.

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ATS RJ-2069

Sci - Chem  
Dec 59

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A. Kh. Mirzadzhanzade, V. V. Mustafayev, 6 pp.

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ATS 67L30R

Sci - Chem  
Sep 59  
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The Regular Precession of a Gyroscope of  
Variable Mass, by V. S. Novoselov.

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Navy 2056/T-85

Sci - Physics  
Mar 59

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A Study of the Thermal Decomposition of Powdered Shale During the Process of Its Rapid Heating, by N. A. Karzhavina, V. E. Keneman, 4 pp.

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AT&T 51130R  
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Sci - Geophys  
Sep 59  
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<p>Ammosov, I. I. and Musyal, S. A. VARIATION IN THE MICROHARDNESS OF COAL WITH REFERENCE TO ITS ORIGIN [Izmenenie Mikroverdosti Ugla v Zavisimosti ot ikh Proiskhozhde- niya]. [1961] [13 p. (foreign text included) 5 refs. Order from OTS or SLA \$1.60 62-10206</p> <p>Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1958, no. 11, p. 136-138.</p> <p>DESCRIPTORS: *Coal, Sources, Hardness, Geophysics.</p> <p>Investigations were made of the changes in the microhardness of the petrographic components of a wide range of coals of various Soviet origins. Measurement of the microhardness was effected by means of the PMT-3 instrument with an indentor load of 10 g. The experiments were carried out in reflected light with (Materials, -Fuels, TT, v. 7, no. 10) (over)</p>	<p>62-10206</p> <p>I. Ammosov, I. I. II. Musyal, S. A.</p> <p>Office of Technical Services</p>
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(NY-3120).

Nikolay Nikolayevich Kachalov (75th Birthday),  
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JPRS-L-1106-N

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DLA 60-21770  
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of Very Low and Very High Frequency Under the In-  
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Prokov'yev.

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AEC Tr-4832

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Investigation of the Slippage Mode in an Automatic Control System, by M. V. Starikova, 6 pp.

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Jun 59

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PLASTIC DEFORMATIONS IN A THICK-WALLED TUBE U  
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IZV. AKA. NAUK-STU. TEKH. NAUK., NO. 12, 1958  
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FSTC-HT-23-U441-73

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